

What is Claimed is:

Sub  
B1  
5

1. A negative ion emitting apparatus comprising:  
a DC high-voltage power supply section;  
at least one discharge electrode section; and  
at least one load resistance section arranged between  
said DC high-voltage power supply section and said discharge  
electrode section so as to restrict flowing of electrons from  
said DC high-voltage power supply section to said discharge  
electrode section.

Sub  
C2  
10

2. A negative ion emitting apparatus as defined in claim  
1, wherein said DC high-voltage power supply section is connected  
to said load resistance section and discharge electrode section  
through a high-voltage wiring.

Sub  
B2  
15

3. A negative ion emitting apparatus as defined in claim  
1, wherein said discharge electrode section is constituted by a  
needle electrode formed at a distal end thereof with an acute  
angle.

20

4. A negative ion emitting apparatus as defined in claim  
2, wherein said discharge electrode section is constituted by a  
needle electrode formed at a distal end thereof with an acute  
angle.

Sub  
C4  
25

5. A negative ion emitting apparatus as defined in claim  
1, wherein the amount of negative ions emitted is varied by  
varying a load resistance of said load resistance section.

6. A negative ion emitting apparatus as defined in claim  
2, wherein the amount of negative ions emitted is varied by  
varying a load resistance of said load resistance section.

30

7. A negative ion emitting apparatus as defined in claim  
3, wherein the amount of negative ions emitted is varied by  
varying a load resistance of said load resistance section.

8. A negative ion emitting apparatus as defined in claim  
4, wherein the amount of negative ions emitted is varied by

varying a load resistance of said load resistance section.

9. A negative ion emitting apparatus as defined in claim 1, wherein a plurality of said discharge electrode sections are arranged;

5 a distributor is arranged between said discharge electrode sections and said DC high-voltage power supply section and provided therein with an additional load resistance section; and

10 said DC high-voltage power supply section and said discharge electrode sections are connected to said distributor.

10. A negative ion emitting apparatus as defined in claim 2, wherein a plurality of said discharge electrode sections are arranged;

15 a distributor is arranged between said discharge electrode sections and said DC high-voltage power supply section and provided therein with an additional load resistance section; and

20 said DC high-voltage power supply section and said discharge electrode sections are connected to said distributor.

11. A negative ion emitting apparatus as defined in claim 3, wherein a plurality of said discharge electrode sections are arranged;

25 a distributor is arranged between said discharge electrode sections and said DC high-voltage power supply section and provided therein with an additional load resistance section; and

said DC high-voltage power supply section and said discharge electrode sections are connected to said distributor.

30 12. A negative ion emitting apparatus as defined in claim 4, wherein a plurality of said discharge electrode sections are arranged;

a distributor is arranged between said discharge

electrode sections and said DC high-voltage power supply section and provided therein with an additional load resistance section; and

5 said DC high-voltage power supply section and said discharge electrode sections are connected to said distributor.

13. A negative ion emitting apparatus as defined in claim 5, wherein a plurality of said discharge electrode sections are arranged;

10 a distributor is arranged between said discharge electrode sections and said DC high-voltage power supply section and provided therein with an additional load resistance section; and

said DC high-voltage power supply section and said discharge electrode sections are connected to said distributor.

15 14. A negative ion emitting apparatus as defined in claim 6, wherein a plurality of said discharge electrode sections are arranged;

20 a distributor is arranged between said discharge electrode sections and said DC high-voltage power supply section and provided therein with an additional load resistance section; and

said DC high-voltage power supply section and said discharge electrode sections are connected to said distributor.

25 15. A negative ion emitting apparatus as defined in claim 7, wherein a plurality of said discharge electrode sections are arranged;

30 a distributor is arranged between said discharge electrode sections and said DC high-voltage power supply section and provided therein with an additional load resistance section; and

said DC high-voltage power supply section and said discharge electrode sections are connected to said distributor.

16. A negative ion emitting apparatus as defined in claim 8, wherein a plurality of said discharge electrode sections are arranged;

a distributor is arranged between said discharge electrode sections and said DC high-voltage power supply section and provided therein with an additional load resistance section; and

said DC high-voltage power supply section and said discharge electrode sections are connected to said distributor.

17. A negative ion emitting method comprising the step of connecting at least one load resistance section between a DC high-voltage power supply section and at least one discharge electrode section, to thereby restrict flowing of electrons from said DC high-voltage power supply section to said discharge electrode section for emission of negative ions from said discharge electrode section.